QC ABSTRACT

NAME OF WORK: Maintenance of UGD Lines in MS Palya Areas in Ward No.11 (Kuvempunagara)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1
6	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	3 set /16-30 cum	17.45	6	6
7	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-12-27-28** **Date: 27-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone.
Address	:	Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Maintenance of UGD Lines in MS Palya Areas in Ward No.11 (Kuvempunagara)
Agency	:	Sri. Charan N S, No. 186, 9th Cross, CIL Layout, Cholanayakanahalli, RT Nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/102/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

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BBMP, Bangalore - 92

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-12-27-28** **Date: 23-12-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Maintenance of UGD Lines in MS Palya Areas in Ward No.11 (Kuvempunagara)
Agency	:	Sri. Charan N S, No. 186, 9th Cross, CIL Layout, Cholanayakanahalli, RT Nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/102/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	24-11-22
Environmental Conditions during test	:	Temperature: 27°C Humidity: 77%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-12-27-28** **Date: 25-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Maintenance of UGD Lines in MS Palya Areas in Ward No.11 (Kuvempunagara)
Agency	:	Sri. Charan N S, No. 186, 9th Cross, CIL Layout, Cholanayakanahalli, RT Nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/102/18-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	23-11-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-12-27-28** **Date: 25-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-12-27-28** **Date: 25-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Maintenance of UGD Lines in MS Palya Areas in Ward No.11 (Kuvempunagara)
Agency	:	Sri. Charan N S, No. 186, 9th Cross, CIL Layout, Cholanayakanahalli, RT Nagar, Bangalore-32
Customer Reference	:	EE(Project)/Ynk.Zone/WO/102/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-12-27-28

Date: 25-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2022-12-27-28 **Date: 25-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Maintenance of UGD Lines in MS Palya Areas in Ward No.11 (Kuvempunagara)
Agency	:	Sri. Charan N S, No. 186, 9th Cross, CIL Layout, Cholanayakanahalli, RT Nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/102/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	23-11-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	145	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	165	395	39.5	60.5	30-70	55-90	75-100	90-100
5	600 micron	187	582	58.2	41.8	15-34	35-59	60-79	80-100
6	300 micron	175	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	155	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-12-27-28

Date: 25-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.82	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	8.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2022-12-27-28** **Date: 13-12-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Maintenance of UGD Lines in MS Palya Areas in Ward No.11 (Kuvempunagara)
Agency	:	Sri. Charan N S, No. 186, 9th Cross, CIL Layout, Cholanayakanahalli, RT Nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/102/18-19
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-22
Identification Mark on Brick	:	Wire Cut Brick
Reference to BIS codes	:	IS 1077 : 1992 (RA 2021) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2019) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	06-12-22

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	235.25	107.63	25320	180.6	7.1	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	232.69	109.65	25514	182.1	7.1	
3	234.42	108.69	25479	193.7	7.6	
4	237.69	109.56	26041	192.8	7.4	
5	234.63	110.05	25821	191.2	7.4	
Average of 5 bricks					7.3	

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Certificate No.: TC-5548

Lab ID : CP-2022-12-27-28

Date: 13-12-22

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.864	3.165	10.5	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.946	3.248	10.3	
3	2.787	3.110	11.6	
4	2.869	3.152	9.9	
5	2.958	3.284	11.0	
Average Water Absorption(%)			10.6	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.63	109.23	25082	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	228.45	108.36	24755	Moderate	
3	229.85	108.56	24953	Moderate	
4	228.76	109.65	25084	Moderate	
5	229.65	108.47	24910	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4625	4520 to 4680 mm
2	Width	2135	2160 to 2240 mm
3	Height	1395	1360 to 1440 mm

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2022-12-27-27**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone, BBMP, Bangalore. **Date: 25/12/2022**
Address	:	Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Maintenance of UGD Lines in MS Palya Areas in Ward No.11 (Kuvempunagara)
Agency	:	Sri. Charan N S, No. 186, 9th Cross, CIL Layout, Cholanayakanahalli, RT Nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/102/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-22
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	150.82 X 150.94 X 150.21	22765	8.830	572.7	25.2	25.4
2	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	150.77 X 151.22 X 150.27	22799	8.812	601.1	26.4	
3	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	151.11 X 151.17 X 149.96	22843	9.060	561.9	24.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/12/2022

Lab ID	:	CP-2022-12-27-27
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Maintenance of UGD Lines in MS Palya Areas in Ward No.11 (Kuvempunagara)
Agency	:	Sri. Charan N S, No. 186, 9th Cross, CIL Layout, Cholanayakanahalli, RT Nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/102/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-22
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	149.80 X 149.37 X 149.96	22375	8.417	566.2	25.3	25.4
2	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	149.81 X 150.65 X 149.06	22568	8.714	601.6	26.7	
3	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	150.57 X 151.22 X 151.08	22769	8.372	548.8	24.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Date: 24/12/2022

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Customer's Reference	:	EE(Project)/Ynk.Zone/WO/102/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-22
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	149.80 X 149.37 X 149.96	22375	8.417	566.2	25.3	25.4
2	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	149.81 X 150.65 X 149.06	22568	8.714	601.6	26.7	
3	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	150.57 X 151.22 X 151.08	22769	8.372	548.8	24.1	

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Format No: CP/TF/01

Lab ID	:	**CP-2022-12-27-27**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
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Agency	:	Sri. Charan N S, No. 186, 9th Cross, CIL Layout, Cholanayakanahalli, RT Nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/102/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-22
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2022

Date: 24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	150.45 X 151.17 X 151.32	22743	8.594	581.6	25.6	
2	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	149.08 X 149.39 X 149.88	22271	8.781	590.5	26.5	25.6
3	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	149.24 X 150.88 X 150.21	22518	8.582	556.2	24.7	

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Certificate No.: TC-5548

Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2022-12-27-28** **Date: 09-12-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Maintenance of UGD Lines in MS Palya Areas in Ward No.11 (Kuvempunagara)
Agency	:	Sri. Charan N S, No. 186, 9th Cross, CIL Layout, Cholanayakanahalli, RT Nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/102/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-22
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	06-12-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	63	63	6.3	93.7	90-100
3	1.18 mm	219	282	28.2	71.8	70-100
4	600 micron	152	434	43.4	56.6	40-100
5	300 micron	170	604	60.4	39.6	5-70
6	150 micron	289	893	89.3	10.7	0-15
7	Pan	107	1000	100.0	0.0	0

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Certificate No.: TC-5548

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2022-12-27-28

Date: 09-12-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.22	-
2	Specific Gravity	2.56	-
3	Material finer than 75 micron(%)	11.8	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.94	-
5	Loose Bulk Density (Kg/litre)	1.78	-

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